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> Title: JP11512337T2:

PDerwent Title: Self-cleaning photocatalytic coating - of crystalline titanium oxide for glass,

ceramic or glass-ceramic substrate [Derwent Record]

JP Japan © Country:

> **Kind:** T2 Publ. unexam. Pat. Appl. based on Internat. Appl. i

see Assignee

Assignee: None

Published / Filed: **1999-10-26** / 1996-09-13

> Application Number:

JP1996000511722

Advanced: C03C 17/00; C03C 17/25; C03C 17/34; C04B 41/45; C04B 41/52; 

C04B 41/81; C04B 41/89; G02F 1/1333; G02F 1/1335; G02F 1/153;

G02F 1/157;

Core: G02F 1/01; more...

IPC-7: **B01J 35/02**; C03C 17/00; C09D 5/00; C09D 7/12;

C03C17/00B2; C03C17/00D2; C03C17/25C; C03C17/34D2; C03C17/34D4D; FECLA Code:

C04B41/45B30; C04B41/52; C04B41/81; C04B41/89; G02F1/1333;

1996-09-13 WO1996FR0001421 Priority Number:

1995-09-15 FR1995000010839

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Legal Status:

AL AM AP AZ BB BG BY CA CN EE GE HU IL IS JP KE KG KP KR KZ LK 

LR LS LT BE CH FI GB IE IT LI Country:

| <u>Publication</u> | Pub. Date   | Filed  | Title  |
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| WO9710186A1        | 1997-03-20  | 1996-09-13   | PHOTOCATALYTIC COATING SUB   |
| US20040216487A1    | 2004-11-04  | 2004-06-01   | Substrate with a photocatalytic coatir   |
| US20030207028A1    | 2003-11-06  | 2003-04-22   | Substrate with a photocatalytic coatir   |
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(JP11512337T2) Page 2 of 3

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| 園 | US6846556       | 2005-01-25 | 2002-04-05 | Substrate with a photocatalytic coatir        |  |
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| Z | US6103363       | 2000-08-15 | 1998-05-28 | Substrate with a photocatalytic coatir        |  |
| Ø | TR9800459T1     | 1998-06-22 | 1996-09-13 | Fotokatalitik kaplamali taban katman          |  |
| 团 | PT1132351T      | 2005-05-31 | 1996-09-13 | SUBSTATO DE REVESTIMENTO FO<br>CATALITICO     |  |
| Ø | PT0850204T      | 2002-05-31 | 1996-09-13 | SUBSTRATO PARA REVESTIMENT<br>CATALITICO      |  |
| 図 | PL0325527A1     | 1998-08-03 | 1996-09-13 | PHOTOCATALYTIC COATING CAR<br>SUBSTRATE       |  |
| Ø | JP2006247652A2  | 2006-09-21 | 2006-03-22 |   |  |
| Ø | JP2005225758A2  | 2005-08-25 | 2005-03-14 | SUBSTRATE WITH PHOTOCATALY COATING            |  |
| 図 | JP2005213142A2  | 2005-08-11 | 2005-03-14 | SUBSTRATE PROVIDED WITH PHOTOCATALYST COATING |  |
| Ø | JP2005205411A2  | 2005-08-04 | 2005-03-14 | SUBSTRATE WITH PHOTOCATALY COATING            |  |
| Ø | JP2005199275A2  | 2005-07-28 | 2005-03-14 | BASE MATERIAL HAVING PHOTOC<br>COATING        |  |
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| Ø | FR2738813B1     | 1997-10-17 | 1995-09-15 | SUBSTRAT A REVETEMENT PHOT<br>CATALYTIQUE     |  |
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| 丛 | EP1518836A3     | 2006-05-17 | 1996-09-13 | Substrate with photocatalytic coating         |  |
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| 产 | EP1132351B1     | 2005-01-12 | 1996-09-13 | Substrate with photocatalytic coating         |  |
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| A | EP0850204A1     | 1998-07-01 | 1996-09-13 | PHOTOCATALYTIC COATING SUB                    |  |
| 図 | DK0850204T3     | 2002-04-02 | 1996-09-13 | Substrat med fotokatalytisk overtræk          |  |
| 図 | DE69634178T2    |            | 1996-09-13 | Substrat mit photokatalytischer Besc          |  |
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| 凶 | DE69617705T2    | 2002-08-08 | 1996-09-13 | SUBSTRAT MIT PHOTOKATALYTIS<br>BESCHICHTUNG   |  |
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| Ø | DE29624395U1    |            | 1996-09-13 | Substrat mit photokalytischer Beschi          |  |
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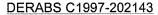
|   | Ø                             | CZ9800784A3 | 1998-08-12 |            | SUBSTRATE WITH PHOTOCATALY<br>COATING, PROCESS OF ITS PREF<br>AND USE  |  |  |
|---|-------------------------------|-------------|------------|------------|--|--|--|
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|   | Ø                             | AT0286858E  | 2005-01-15 | 1996-09-13 | SUBSTRAT MIT PHOTOKATALYTIS<br>BESCHICHTUNG  |  |  |
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| ſ | 47 family members shown above |             |            |            |  |  |  |

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> Title: WO9710186A1: PHOTOCATALYTIC COATING SUBSTRATE[French]

Self-cleaning photocatalytic coating - of crystalline titanium oxide for Derwent Title:

glass, ceramic or glass-ceramic substrate [Derwent Record]

**WO** World Intellectual Property Organization (WIPO) Country:

A1 Publ.of the Int.Appl. with Int.search report

BOIRE, Philippe; 77, rue de Cambronne, F-75015 Paris, France 

TALPAERT, Xavier; 184, rue de Belleville, F-75020 Paris, France

SAINT-GOBAIN VITRAGE, 18, avenue d'Alsace, F-92400 Assignee:

Courbevoie, France

♣Corporate Tree data: Compagnie de Saint-Gobain (STGOBAIN);

News, Profiles, Stocks and More about this company

**1997-03-20** / 1996-09-13 Published / Filed:

> Application Number:

WO1996FR0001421

Advanced: C03C 17/00; C03C 17/25; C03C 17/34; C04B 41/45;

C04B 41/52; C04B 41/81; C04B 41/89; G02F 1/1333; G02F 1/1335;

G02F 1/153; G02F 1/157; Core: G02F 1/01; more...

IPC-7: C03C 8/20; C03C 17/00; C03C 17/34;

C03C17/00B2; C03C17/00D2; C03C17/25C; C03C17/34D2; 

C03C17/34D4D; C04B41/45B30; C04B41/52; C04B41/81;

C04B41/89; G02F1/1333;

Priority Number: 1995-09-15 FR1995000010839

> The invention relates to a glass-, ceramic- or vitro-ceramic-based Abstract:

substrate (1) having on at least a portion of at least one of its sides a coating (3) with photocatalytic characteristics comprising titanium

oxyde which is at least partially crystallized. It also relates to

applications of such substrates and its production

process.\$L'invention a pour objet un substrat (1) à base verrière, céramique ou vitro-céramique, muni sur au moins une partie d'au

moins une de ses faces d'un revêtement (3) a propriété photocatalytique comportant de l'oxyde de titane au moins partiellement cristallisé. Elle concerne également les applications

d'un tel substrat et son mode d'obtention. [French]

Representative

Image:

RENOUS-CHAN, Véronique; SAttorney, Agent

or Firm:

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AL AU BB BG BR CA CN CZ EE GE HU IL IS JP KE KP KR LK LR LS LT LV MG MK MN MW MX NO NZ PL RO SD SG SI SK TR TT UA UG US VN, European patent: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE, OAPI patent: BF BJ CF CG CI CM GA GN ML MR NE SN TD TG, ARIPO patent: KE LS MW SD SZ UG, Eurasian patent: AM AZ BY KG KZ MD RU TJ TM

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| PDF | Publication      | Pub. Date  | Filed      | Title  |
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| Z   | US20040216487A1  | 2004-11-04 | 2004-06-01 | Substrate with a photocatalytic coatir   |
| 图   | US20030207028A1  | 2003-11-06 | 2003-04-22 | Substrate with a photocatalytic coatir   |
| æ   | US20020169204A1  | 2002-11-14 | 2002-06-26 | Use of triaqua-mu3-oxohekakis-mu-<br>propionatotrichromium(1+), [Cr3O<br>(O2CCH2CH3)6(H2O)3]+, as a nutrit<br>supplement or in treatment of medica |
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| 图   | US20020110638A1  | 2002-08-15 | 2002-02-22 | Substrate with a photocatalytic coatir   |
| 图   | US20020071956A1  | 2002-06-13 | 2001-12-04 | Substrate with a photocatalytic coatir   |
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| B   | US6103363        | 2000-08-15 | 1998-05-28 | Substrate with a photocatalytic coatir   |
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| Ø   | PL0325527A1      | 1998-08-03 | 1996-09-13 | PHOTOCATALYTIC COATING CAR<br>SUBSTRATE  |
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| B  | EP1518836A2                   | 2005-03-30 | 1996-09-13 | Substrate with photocatalytic coating  |  |  |  |
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| 人  | EP0850204B1                   | 2001-12-05 | 1996-09-13 | PHOTOCATALYTIC COATING SUB   |  |  |  |
| と  | EP0850204A1                   | 1998-07-01 | 1996-09-13 | PHOTOCATALYTIC COATING SUB   |  |  |  |
| Ø  | DK0850204T3                   | 2002-04-02 | 1996-09-13 | Substrat med fotokatalytisk overtræk   |  |  |  |
| Ø  | DE69634178T2                  | 2006-01-05 | 1996-09-13 | Substrat mit photokatalytischer Bescl  |  |  |  |
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| Ø  | AU7087596A1                   | 1997-04-01 | 1996-09-13 | Photocatalytic coating substrate   |  |  |  |
| Ø  | AT0286858E                    | 2005-01-15 | 1996-09-13 | SUBSTRAT MIT PHOTOKATALYTIS<br>BESCHICHTUNG  |  |  |  |
| Ø  | AT0210097E                    | 2001-12-15 | 1996-09-13 | SUBSTRAT MIT PHOTOKATALYTIS<br>BESCHICHTUNG  |  |  |  |
| 47 | 47 family members shown above |            |            |  |  |  |  |

First Claim:
Show all claims

REVENDICATIONS 1 . Substrat (1) à base verrière, céramique ou vitro- céramique, muni sur au moins une partie d'au moins une de ses faces d'un revêtement (3) à propriété photo-catalytique comportant de l'oxyde de titane au moins partiellement cristallisé.

Description
Expand description

± SUBSTRAT A REVETEMENT PHOTOCATALYTIQUE 5 L'invention concerne des substrats à base verrière, céramique ou vitro- céramique, plus particulièrement en verre, notamment transparents, que l'on munit de revêtements à propriétés photo-catalytiques, en vue de fabriquer des vitrages d'applications diverses, comme les vitrages utilitaires, vitrages pour véhicules ou pour bâtiments.

De plus en plus, on cherche à fonctionnaliser les vitrages en déposant à leur surface des couches minces destinées à leur conférer une propriété particulière selon l'application visée. Ainsi, il existe des couches à fonction optique, comme les couches dites anti-reflet composées d'un empilement de couches alternativement à haut et bas indices de réfraction. Pour une fonction anti-statique, ou chauffante du type anti-givre, on peut aussi prévoir des couches

minces conductrices électriquement, par exemple à base de métal ou d'oxyde métallique dopé. Pour une fonction thermique, de basémissivité ou anti-solaire par exemple, on peut se tourner vers des couches minces en métal du type argent ou à base de nitrure ou d'oxyde métallique. Pour obtenir un effet « anti-pluie », peuvent être prévues des couches à caractère hydrophobe, par exemple à base d'organo-silane fluoré Cependant, il existe encore un besoin pour un substrat, notamment un vitrage que l'on pourrait qualifier « d'anti-salissures », c'est-à-dire visant la permanence dans le temps des propriétés d'aspect et de surface, et permettant notamment d'espacer les nettoyages etiou d'améliorer la visibilité, en parvenant à éliminer au fur et à mesure les salissures se déposant progressivement à la surface du substrat, notamment les salissures d'origine organique comme les traces de doigts ou des produits organiques volatils présents dans l'atmosphère, ou même des salissures du type buée.

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| Ø        | DE10158433B4     | 2006-05-18 | Sepeur,<br>Stefan, Dr.   | NANO-X GmbH   | Beschichtung   |
| <b>2</b> | <u>US6939611</u> | 2005-09-06 | Fujishima;<br>Akira      | Kanagawa<br>Academy of<br>Science and<br>Technology | Window glass emplo<br>titanium dioxide phot  |
| ß        | US6875319        | 2005-04-05 | Nadaud;<br>Nicolas       | Saint-Gobain<br>Glass France                        | Substrate with photo coating   |
| B        | <u>US6846556</u> | 2005-01-25 | Boire;<br>Philippe       | Saint-Gobain<br>Glass France                        | Substrate with a pho coating   |
| B        | <u>US6840061</u> | 2005-01-11 | Hurst;<br>Simon<br>James | Libbey-Owens-<br>Ford Co.                           | Coatings on substrat   |
|          | <u>US6824826</u> | 2004-11-30 | Amadelli;<br>Rossano     | Italcementi<br>S.p.A.                               | Use of photocatalytic preparations of colloidioxide for preserving original appearance cementitious, stone, products |
| A        | <u>US6733889</u> | 2004-05-11 | Varanasi;<br>Srikanth K. | Pilkington North<br>America, Inc.                   | Reflective, solar cong<br>glass article  |
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| A        | <u>US6465088</u> | 2002-10-15 | Talpaert;<br>Xavier      | Saint-Gobain<br>Glass France                        | Substrate with a pho coating   |
| Ø        | <u>US6413581</u> | 2002-07-02 | Greenberg;<br>Charles B. | PPG Industries<br>Ohio, Inc.                        | Photocatalytically-ac cleaning article and i making same   |

| ž  | <u>US6387844</u> | 2002-05-14 | Fujishima;<br>Akira      |   | Titanium dioxide phc                                     |
|----|------------------|------------|--------------------------|---|--|
| 囚  | <u>US6312131</u> | 2001-11-06 | Yamamoto;<br>Toru        | Nippon Sheet<br>Glass Co., Ltd.         | Hydrophilic mirror an of producing the san               |
| A  | US6312831        | 2001-11-06 | Crawley;<br>Richard Lee  | Visteon Global<br>Technologies,<br>Inc. | Highly reflective, dur titanium/tin oxide film           |
| A  | US6238738        | 2001-05-29 | McCurdy;<br>Richard J.   | Libbey-Owens-<br>Ford Co.               | Method for depositin oxide coatings on fla               |
| j. | US6054227        | 2000-04-25 | Greenberg;<br>Charles B. | PPG Industries<br>Ohio, Inc.            | Photocatalytically-ac cleaning appliances                |
| Z  | <u>US6027766</u> | 2000-02-22 | Greenberg;<br>Charles B. | PPG Industries<br>Ohio, Inc.            | Photocatalytically-ac cleaning article and i making same |

¶Other Abstract Info:

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